QC ABSTRACT

NAME OF WORK: Improvements of Roads, Drains and Culverts at Maruthinagar Badrappa Layout and Surrounding Area at Kodigehalli Ward No 08

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*150*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
8	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
9	PCC(M15)	Compressive Strength(7days and 28days)	2 set /6-15 cum	11.28	4	4
10	RCC(M20)	Compressive Strength(7days and 28days)	6 set /100-150 cum	118.44	12	12

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka, Bangalore.

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-08-26-55** **Date: 13-08-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Roads, Drains and Culverts at Maruthinagar Badrappa Layout and Surrounding Area at Kodigehalli Ward No 08
Agency	:	Sri.Gangulureddy.A, #490/B, 12th C Cross Vyalikaval, Malleshwaram, Bangalore-560003.
Customer's Reference	:	BBMP/EE/BTP/WO/06/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-08-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	11-08-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	_
2	Finess by Air permeablity method (m^2/kg,Min)	348.6	225m^2/kg, Min
3	Density (gm/cc)	3.15	_
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Samples will be disposed after 90 days from the date of issue of test certificate

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Authorized Signatory
Quality Manager

Assistant Executive Engineer Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P.

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-08-26-55** **Date: 08-09-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Roads, Drains and Culverts at Maruthinagar Badrappa Layout and Surrounding Area at Kodigehalli Ward No 08
Agency	:	Sri.Gangulureddy.A, #490/B, 12th C Cross Vyalikaval, Malleshwaram, Bangalore-560003.
Customer's Reference	:	BBMP/EE/BTP/WO/06/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-08-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	11-08-20
Environmental Conditions during test	:	Temperature: 26˚C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-08-26-55** **Date: 13-08-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Roads, Drains and Culverts at Maruthinagar Badrappa Layout and Surrounding Area at Kodigehalli Ward No 08
Agency	:	Sri.Gangulureddy.A, #490/B, 12th C Cross Vyalikaval, Malleshwaram, Bangalore-560003.
Customer's Reference	:	BBMP/EE/BTP/WO/06/2020-21
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	10-08-20
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	10-08-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	217	217	1.4	98.6	90-100
3	20 mm	7453	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

Assistant Executive Engineer,
Kodigehalli Sub Division,
BBMP

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-08-26-55** **Date: 13-08-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.7	
3	Specific Gravity	2.61	–
4	Bulk Density(Loose) (Kg/l)	1.41	–
5	Bulk Density(Compacted) (Kg/l)	1.47	–
6	Water Absorption(%)	0.23	–

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Quality Manager

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Bangalore.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-08-26-55** **Date: 12-08-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Roads, Drains and Culverts at Maruthinagar Badrappa Layout and Surrounding Area at Kodigehalli Ward No 08
Agency	:	Sri.Gangulureddy.A, #490/B, 12th C Cross Vyalikaval, Malleshwaram, Bangalore-560003.
Customer Reference	:	BBMP/EE/BTP/WO/06/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-08-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	10-08-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	225	225	4.5	95.5	90-100
3	10 mm	2845	3070	61.4	38.6	25-55
4	4.75 mm	1745	4815	96.3	3.7	0-10
5	Pan	185	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-08-26-55** **Date: 12-08-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.1	
3	Specific Gravity	2.68	_
4	Bulk Density(Loose) (Kg/l)	1.43	_
5	Bulk Density(Compacted) (Kg/l)	1.49	_
6	Water Absorption(%)	0.23	_
7	Aggregate crushing Value(%)	22.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-08-26-55** **Date: 12-08-20**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of Roads, Drains and Culverts at Maruthinagar Badrappa Layout and Surrounding Area at Kodigehalli Ward No 08

Agency : Sri.Gangulureddy.A, #490/B, 12th C Cross Vyalikaval, Malleshwaram, Bangalore-560003.

Customer's Reference : BBMP/EE/BTP/WO/06/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-08-20

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 10-08-20

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-08-26-55** **Date: 12-08-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.45	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.2	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Quality Manager

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Date: 31-08-20

Lab ID	:	CP-2020-08-26-55
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Roads, Drains and Culverts at Maruthinagar Badrappa Layout and Surrounding Area at Kodigehalli Ward No 08
Agency	:	Sri.Ganguluredy.A, #490/B, 12th C Cross Vyalikaval, Malleshwaram, Bangalore-560003.
Customer's Reference	:	BBMP/EE/BTP/WO/06/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-08-20
Sample Type/Size	:	Solid concrete blocks size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	28-08-20

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	401	148	198	11751	33.615	2860.6	2767.8	Not less than 1800Kg/m^3
2	400	149	203	12099	33.989	2809.3		
3	400	152	201	12221	32.184	2633.5		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore

Lab ID : **CP-2020-08-26-55** **Date: 31-08-20**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	400	150	201	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	403	150	199	
3	404	152	202	
4	401	149	199	
5	404	150	201	
6	402	149	203	
7	400	149	201	
8	403	150	203	
9	400	150	200	
10	403	151	201	
11	404	151	199	
12	403	151	203	
13	402	152	201	
14	401	153	203	
15	402	149	202	
16	404	152	202	
17	401	152	200	
18	400	152	201	
19	401	152	201	
20	399	151	199	
Average of 20	**402**	**151**	**201**	

Assistant Executive Engineer,
Kilgehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
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Lab ID : CP-2020-08-26-55 Date: 31-08-20

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	150	60169	260.8	4.3	4.3
2	403	150	60528	257.1	4.2	
3	404	152	61242	252.3	4.1	
4	401	149	59956	258.0	4.3	
5	404	150	60427	256.6	4.2	
6	402	149	60115	260.8	4.3	
7	400	149	59663	259.2	4.3	
8	403	150	60324	257.3	4.3	

As per IS Requirements (Table 2, **Clause 5.1, 5.2 and 9.4)**

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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Bangalore.

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Quality Manager

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TEST RESULTS OF STEEL

Lab ID : **CP-2020-08-26-55** **Date: 11-08-20**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of Roads, Drains and Culverts at Maruthinagar Badrappa Layout and Surrounding Area at Kodigehalli Ward No 08

Agency : Sri.Gangulureddy.A, #490/B, 12th C Cross Vyalikaval, Malleshwaram, Bangalore-560003.

Customer's Reference : BBMP/EE/BTP/WO/06/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-08-20

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 10-08-20

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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Note:

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2020-08-26-55** **Date: 05-09-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Roads, Drains and Culverts at Maruthinagar Badrappa Layout and Surrounding Area at Kodigehalli Ward No 08
Agency	:	Sri.Ganguleddy.A, #490/B, 12th C Cross Vyalikaval, Malleshwaram, Bangalore-560003.
Customer's Reference	:	BBMP/EE/BTP/WO/06/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-09-20
Sample Type /Size	:	Precast Cover Slab (100mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	01/09/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

* The results obtained are satisfactory as per standard requirements.

Note:

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All information furnished by Customer/Representative
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Assistant Executive Engineer,
Kodigehalli Sub Divisio
Yelahanka Zone, B.B.M.P.,
Bangalore.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	**CP-2020-08-26-55**	**Date: 11-09-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements of Roads, Drains and Culverts at Maruthinagar Badrappa Layout and Surrounding Area at Kodigehalli Ward No 08	
Agency	:	Sri.Gangulureddy.A, #490/B, 12th C Cross Vyalikaval, Malleshwaram, Bangalore-560003.	
Customer's Reference	:	BBMP/EE/BTP/WO/06/2020-21	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	07-09-20	
Sample Type /Size	:	CC Kerb Stone/ 450*165*400mm	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	07/09/2020	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	165.51	2.864	7854	142.1	18.1	18.1	22.6
2	B	100.03	165.49	2.793	7857	145.2	18.5	18.5	23.1
3	C	100.01	165.50	2.815	7854	145.1	18.5	18.5	23.1

* The results obtained are satisfactory as per standard requirements.

Note:

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Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, BBMP, Bangalore.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-26-55** **Date: 26/08/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of Roads, Drains and Culverts at Maruthinagar Badrappa Layout and Surrounding Area at Kodigehalli Ward No 08

Agency : Sri.Gangulureddy.A, #490/B, 12th C Cross Vyalikaval, Malleshwaram, Bangalore-560003.

Customer's Reference : BBMP/EE/BTP/WO/06/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-08-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	19/08/2020	26/08/2020	149.06 X 150.58 X 151.78	22445	**8.300**	290.6	12.9	12.4
2	PCC	M15	19/08/2020	26/08/2020	151.19 X 149.88 X 151.19	22660	**8.838**	273.8	12.1	
3	PCC	M15	19/08/2020	26/08/2020	151.29 X 149.74 X 149.46	22655	**8.573**	277.7	12.3	

* The results obtained are satisfactory as per standard requirements.

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Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-26-55** **Date: 16/09/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of Roads, Drains and Culverts at Maruthinagar Badrappa Layout and Surrounding Area at Kodigehalli Ward No 08

Agency : Sri.Gangulureddy.A, #490/B, 12th C Cross Vyalikaval, Malleshwaram, Bangalore-560003.

Customer's Reference : BBMP/EE/BTP/WO/06/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-08-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	19/08/2020	16/09/2020	150.24 X 149.04 X 151.20	22392	8.124	383.9	17.1	17.2
2	PCC	M15	19/08/2020	16/09/2020	149.15 X 150.56 X 151.74	22455	8.968	388.8	17.3	
3	PCC	M15	19/08/2020	16/09/2020	149.82 X 150.77 X 151.03	22588	8.910	388.5	17.2	

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Note:

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2020-08-26-55** **Date: 26/08/2020**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Roads, Drains and Culverts at Maruthinagar Badrappa Layout and Surrounding Area at Kodigehalli Ward No 08
Agency	:	Sri.Gangulureddy.A, #490/B, 12th C Cross Vyalikaval, Malleshwaram, Bangalore-560003.
Customer's Reference	:	BBMP/EE/BTP/WO/06/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-08-20
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	19/08/2020	26/08/2020	151.12 X 151.99 X 151.10	22969	**8.300**	286.3	12.5	12.6
2	PCC	M15	19/08/2020	26/08/2020	151.96 X 151.56 X 151.50	23032	**8.838**	298.8	13.0	
3	PCC	M15	19/08/2020	26/08/2020	149.25 X 151.51 X 149.45	22612	**8.573**	281.6	12.5	

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Assistant Executive Engineer,
Kodigehalli Sub Divisi
Yelahanka Zone, B.B.M.P.
Bangalore.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-26-55** **Date: 16/09/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of Roads, Drains and Culverts at Maruthinagar Badrappa Layout and Surrounding Area at Kodigehalli Ward No 08

Agency : Sri.Gangulureddy.A, #490/B, 12th C Cross Vyalikaval, Malleshwaram, Bangalore-560003.

Customer's Reference : BBMP/EE/BTP/WO/06/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-08-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	19/08/2020	16/09/2020	151.01 X 151.68 X 149.69	22905	8.124	390.5	17.0	17.3
2	PCC	M15	19/08/2020	16/09/2020	150.39 X 151.53 X 150.42	22788	8.968	387.9	17.0	
3	PCC	M15	19/08/2020	16/09/2020	150.09 X 149.15 X 150.83	22385	8.910	396.1	17.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-26-55** **Date: 31/08/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of Roads, Drains and Culverts at Maruthinagar Badrappa Layout and Surrounding Area at Kodigehalli Ward No 08

Agency : Sri.Gangulureddy.A, #490/B, 12th C Cross Vyalikaval, Malleshwaram, Bangalore-560003.

Customer's Reference : BBMP/EE/BTP/WO/06/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-08-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	24/08/2020	31/08/2020	150.40 X 151.20 X 151.02	22740	**8.163**	414.9	18.2	18.4
2	Drain Bottom Slab Concrete	M20	24/08/2020	31/08/2020	151.63 X 151.24 X 149.42	22933	**8.024**	427.5	18.6	
3	Drain Bottom Slab Concrete	M20	24/08/2020	31/08/2020	151.70 X 151.86 X 151.43	23036	**8.358**	424.8	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-26-55** **Date: 21/09/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of Roads, Drains and Culverts at Maruthinagar Badrappa Layout and Surrounding Area at Kodigehalli Ward No 08

Agency : Sri.Gangulureddy.A, #490/B, 12th C Cross Vyalikaval, Malleshwaram, Bangalore-560003.

Customer's Reference : BBMP/EE/BTP/WO/06/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-08-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	24/08/2020	21/09/2020	149.60 X 151.96 X 151.09	22732	**8.764**	526.7	23.2	22.8
2	Drain Bottom Slab Concrete	M20	24/08/2020	21/09/2020	151.11 X 150.69 X 149.83	22771	**8.911**	502.8	22.1	
3	Drain Bottom Slab Concrete	M20	24/08/2020	21/09/2020	151.82 X 149.29 X 151.06	22666	**8.280**	524.2	23.1	

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-26-55** **Date: 31/08/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of Roads, Drains and Culverts at Maruthinagar Badrappa Layout and Surrounding Area at Kodigehalli Ward No 08

Agency : Sri.Ganguluredy.A, #490/B, 12th C Cross Vyalikaval, Malleshwaram, Bangalore-560003.

Customer's Reference : BBMP/EE/BTP/WO/06/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-08-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	24/08/2020	31/08/2020	149.89 X 151.94 X 151.32	22774	**8.163**	426.7	18.7	18.6
2	Drain Bottom Slab Concrete	M20	24/08/2020	31/08/2020	151.12 X 149.14 X 151.92	22538	**8.024**	422.1	18.7	
3	Drain Bottom Slab Concrete	M20	24/08/2020	31/08/2020	150.66 X 150.29 X 149.87	22642	**8.358**	418.1	18.5	

* The results obtained are satisfactory as per standard requirements.

Note:

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All information furnished by Customer/Representative

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2020-08-26-55** **Date: 21/09/2020**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Roads, Drains and Culverts at Maruthinagar Badrappa Layout and Surrounding Area at Kodigehalli Ward No 08
Agency	:	Sri.Gangulureddy.A, #490/B, 12th C Cross Vyalikaval, Malleshwaram, Bangalore-560003.
Customer's Reference	:	BBMP/EE/BTP/WO/06/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-08-20
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	21/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	24/08/2020	21/09/2020	149.81 X 150.86 X 149.60	22600	**8.764**	542.0	24.0	23.4
2	Drain Bottom Slab Concrete	M20	24/08/2020	21/09/2020	149.73 X 151.15 X 151.44	22632	**8.911**	519.2	22.9	
3	Drain Bottom Slab Concrete	M20	24/08/2020	21/09/2020	149.81 X 149.31 X 149.59	22369	**8.280**	519.5	23.2	

* The results obtained are satisfactory as per standard requirements.

Note:

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All information furnished by Customer/Representative
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Assistant Executive Engineer, Kodigehalli Sub Division, Krishnanka Zone, B.B.M.P., Bangalore.

CIVIL Pro Sig. Date BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-26-55** **Date: 31/08/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of Roads, Drains and Culverts at Maruthinagar Badrappa Layout and Surrounding Area at Kodigehalli Ward No 08

Agency : Sri.Gangulureddy.A, #490/B, 12th C Cross Vyalikaval, Malleshwaram, Bangalore-560003.

Customer's Reference : BBMP/EE/BTP/WO/06/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-08-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	24/08/2020	31/08/2020	150.77 X 149.27 X 151.57	22507	**8.163**	423.3	18.8	18.4
2	Drain Bottom Slab Concrete	M20	24/08/2020	31/08/2020	151.13 X 151.03 X 149.34	22825	**8.024**	415.4	18.2	
3	Drain Bottom Slab Concrete	M20	24/08/2020	31/08/2020	149.63 X 151.56 X 150.61	22677	**8.358**	409.3	18.1	

* The results obtained are satisfactory as per standard requirements.

Note:

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All information furnished by Customer/Representative
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2020-08-26-55** **Date: 21/09/2020**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Roads, Drains and Culverts at Maruthinagar Badrappa Layout and Surrounding Area at Kodigehalli Ward No 08
Agency	:	Sri.Gangulureddy.A, #490/B, 12th C Cross Vyalikaval, Malleshwaram, Bangalore-560003.
Customer's Reference	:	BBMP/EE/BTP/WO/06/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-08-20
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	21/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	24/08/2020	21/09/2020	150.88 X 151.12 X 151.96	22802	**8.764**	539.4	23.7	23.2
2	Drain Bottom Slab Concrete	M20	24/08/2020	21/09/2020	149.11 X 150.60 X 151.82	22456	**8.911**	510.6	22.7	
3	Drain Bottom Slab Concrete	M20	24/08/2020	21/09/2020	151.53 X 149.86 X 150.18	22708	**8.280**	524.2	23.1	

* The results obtained are satisfactory as per standard requirements.

Note:

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Assistant Executive Engineer, Kodigehalli Sub Division, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
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****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-26-55** **Date: 03/09/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of Roads, Drains and Culverts at Maruthinagar Badrappa Layout and Surrounding Area at Kodigehalli Ward No 08

Agency : Sri.Ganguluredy.A, #490/B, 12th C Cross Vyalikaval, Malleshwaram, Bangalore-560003.

Customer's Reference : BBMP/EE/BTP/WO/06/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-08-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	27/08/2020	03/09/2020	150.49 X 149.31 X 150.95	22470	**8.163**	407.8	18.1	18.5
2	Drain Side Wall Concrete	M20	27/08/2020	03/09/2020	150.95 X 151.82 X 150.43	22917	**8.024**	420.0	18.3	
3	Drain Side Wall Concrete	M20	27/08/2020	03/09/2020	149.27 X 151.30 X 150.17	22585	**8.358**	426.4	18.9	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-26-55** **Date: 24/09/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of Roads, Drains and Culverts at Maruthinagar Badrappa Layout and Surrounding Area at Kodigehalli Ward No 08

Agency : Sri.Gangulureddy.A, #490/B, 12th C Cross Vyalikaval, Malleshwaram, Bangalore-560003.

Customer's Reference : BBMP/EE/BTP/WO/06/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-08-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	27/08/2020	24/09/2020	149.78 X 149.23 X 151.16	22352	**8.764**	534.1	23.9	23.3
2	Drain Side Wall Concrete	M20	27/08/2020	24/09/2020	150.56 X 149.39 X 149.39	22492	**8.911**	498.9	22.2	
3	Drain Side Wall Concrete	M20	27/08/2020	24/09/2020	149.89 X 151.17 X 150.77	22659	**8.280**	541.6	23.9	

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Lab ID : **CP-2020-08-26-55** **Date: 03/09/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of Roads, Drains and Culverts at Maruthinagar Badrappa Layout and Surrounding Area at Kodigehalli Ward No 08

Agency : Sri.Gangulureddy.A, #490/B, 12th C Cross Vyalikaval, Malleshwaram, Bangalore-560003.

Customer's Reference : BBMP/EE/BTP/WO/06/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-08-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	27/08/2020	03/09/2020	151.21 X 150.92 X 150.78	22822	**8.163**	413.6	18.1	18.4
2	Drain Side Wall Concrete	M20	27/08/2020	03/09/2020	149.46 X 150.69 X 151.95	22522	**8.024**	424.1	18.8	
3	Drain Side Wall Concrete	M20	27/08/2020	03/09/2020	149.80 X 149.17 X 151.21	22345	**8.358**	410.2	18.4	

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Lab ID : **CP-2020-08-26-55** **Date: 24/09/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of Roads, Drains and Culverts at Maruthinagar Badrappa Layout and Surrounding Area at Kodigehalli Ward No 08

Agency : Sri.Gangulureddy.A, #490/B, 12th C Cross Vyalikaval, Malleshwaram, Bangalore-560003.

Customer's Reference : BBMP/EE/BTP/WO/06/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-08-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	27/08/2020	24/09/2020	150.93 X 151.29 X 149.54	22834	**8.764**	536.0	23.5	23.0
2	Drain Side Wall Concrete	M20	27/08/2020	24/09/2020	151.16 X 149.89 X 151.31	22658	**8.911**	510.8	22.5	
3	Drain Side Wall Concrete	M20	27/08/2020	24/09/2020	151.97 X 150.07 X 151.98	22806	**8.280**	527.3	23.1	

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Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-08-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	27/08/2020	03/09/2020	149.54 X 150.79 X 149.77	22548	**8.163**	419.7	18.6	
2	Drain Side Wall Concrete	M20	27/08/2020	03/09/2020	151.86 X 149.69 X 149.12	22732	**8.024**	423.3	18.6	18.6
3	Drain Side Wall Concrete	M20	27/08/2020	03/09/2020	149.59 X 150.11 X 149.59	22456	**8.358**	414.9	18.5	

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Customer's Reference : BBMP/EE/BTP/WO/06/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-08-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	27/08/2020	24/09/2020	150.95 X 150.48 X 151.22	22715	**8.764**	526.7	23.2	23.2
2	Drain Side Wall Concrete	M20	27/08/2020	24/09/2020	149.37 X 149.67 X 151.77	22356	**8.911**	510.8	22.9	
3	Drain Side Wall Concrete	M20	27/08/2020	24/09/2020	150.81 X 150.85 X 149.58	22750	**8.280**	539.0	23.7	

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